

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	48	(US-20040131030-\$ or US-20040125879-\$ or US-20040036637-\$ or US-20020041637-\$ or US-20050052304-\$ or US-20040136444-\$ or US-20060093046-\$ or US-20030063680-\$ or US-20050024151-\$ or US-20040153898-\$ or US-20040151268-\$ or US-20040151240-\$ or US-20040091041-\$ or US-20040091040-\$ or US-20040044713-\$ or US-20040017516-\$ or US-20040109512-\$).did. or (US-7116963-\$ or US-6968167-\$ or US-6252733-\$ or US-6169764-\$ or US-5774505-\$ or US-6604221-\$ or US-5153875-\$ or US-6768441-\$ or US-6683905-\$ or US-6606359-\$ or US-6037886-\$ or US-5257286-\$ or US-5914633-\$ or US-6819166-\$ or US-7035365-\$ or US-6556637-\$ or US-7120193-\$ or US-7039104-\$ or US-6240133-\$ or US-6144697-\$ or US-6141378-\$ or US-5191462-\$ or US-7035330-\$ or US-6643406-\$ or US-6426680-\$ or US-6377312-\$). did. or (US-6307903-\$ or US-6011770-\$ or US-5179302-\$ or US-4777449-\$).did. or (WO-2004002023-\$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2006/10/20 11:27
L2	43	1 and (a?d or analog?digital or analog adj digital or analog near2 digital or digitiz\$5)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/10/20 10:38
L3	0	1 and (a?d or analog?digital or analog adj digital or analog near2 digital or digitiz\$5) same limiter	US-PGPUB; USPAT; DERWENT	OR	ON	2006/10/20 10:39
L4	7	1 and (a?d or analog?digital or analog adj digital or analog near2 digital or digitiz\$5) same limit\$6	US-PGPUB; USPAT; DERWENT	OR	ON	2006/10/20 10:41
L5	17	"398"/\$7.ccls. and (a?d or analog?digital or analog adj digital or analog near2 digital or digitiz\$5) with limiter	US-PGPUB; USPAT; DERWENT	OR	ON	2006/10/20 10:45
L6	93	(a?d or analog?digital or analog adj digital or analog near2 digital or digitiz\$5) with limiter same binary	US-PGPUB; USPAT; DERWENT	OR	ON	2006/10/20 10:47

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L7	54	(a?d or analog?digital or analog adj digital or analog near2 digital or digitiz\$5) near5 conver\$8 with limiter same binary	US-PGPUB; USPAT; DERWENT	OR	ON	2006/10/20 11:05
L8	2	"20040151268"	US-PGPUB; USPAT; DERWENT	OR	ON	2006/10/20 11:18
L9	21	1 and (dfe or decision near3 feedback or feedback near3 equaliz\$5)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/10/20 11:32
L10	14	("20010007479"   "20010026197"   "20040091040"   "20040091041"   "20040240539"   "5031194"   "5119401"   "5191462"   "5561687"   "5646958"   "6141378"   "6144697"   "6240133"   "6829297").PN. OR ("7120193"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/20 11:36
L11	34	("3875515"   "3974449"   "3984789"   "4468786"   "5119401"   "5157690"   "5283811"   "5297166"   "5327460"   "5345476"   "5402445"   "5481564"   "5500892"   "5513214"   "5524125"   "5675612"   "5694437"   "5703904"   "5732112"   "5742642"   "5784415"   "5835526"   "5886748").PN. OR ("6144697"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/20 11:42
L12	3	1 and 11	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/20 11:42
L13	78	1 or 11	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/20 12:24
L14	1	"20040151268"	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/20 12:50
L15	1	"6144697".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/20 12:53
L16	5	13 and bandwidth near4 error	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/20 12:55
L17	1	"398"/\$7.ccls. and bandwidth near2 error with filter\$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/20 12:57

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L18	98	bandwidth near2 error with filter\$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/20 12:57
L19	27	("3983501"   "4243941"   "4354277"   "4513429"   "4630283"   "5029180"   "5049830"   "5065107"   "5101416"   "5142246"   "5166952"   "5175729"   "5241700"   "5390207"   "5402448"   "5541965"   "5598468"   "5619524"   "5694388"   "5754583"   "5761239"   "5790591"   "5875215"   "5900785"   "6055231"   "6101176"   "6115411").PN. OR ("6940875").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/20 13:03
L20	43	(13 or 18) and (electrical near2 optical or o/e or e/o or opto?electr\$5 or electro?optic\$5 or electr?5 near4 conver\$5 or optic\$5 near4 conver\$5 or pd or photo?diode or photodiode or light near5 sens\$6 or photodetector or transducer or fiber)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/20 13:12
L21	30	(13 or 18) and (electrical near2 optical or opto?electr\$5 or electro?optic\$5 or electr?5 near4 conver\$5 or optic\$5 near4 conver\$5 or pd or photo?diode or photodiode or light near5 sens\$6 or photodetector or transducer)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/20 14:52
L22	22	"398"/\$7.ccls. and (isi or intersymbol) and (dfe or decision near3 feedback or feedback near3 equaliz\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/20 15:17
L23	1	"20050019042".	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/20 15:22
S1	1	"20050135475"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/10/18 11:54
S2	354	(continuous?tim\$3 or continuous\$3 near2 tim\$3 or continual?tim\$3 or continual near2 tim\$3) near5 (filter\$3 or filtration) and ("398"/\$7. ccls. or "359"/\$7.ccls. or "370"/\$7. ccls. or "372"/\$7.ccls. or "375"/\$7. ccls. or "379"/\$7.ccls. or "250"/\$7. ccls.)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/10/18 13:57

## EAST Search History

S3	430	(ct or continuous?tim\$3 or continuous\$3 near2 tim\$3 or continual?tim\$3 or continual near2 tim\$3) near5 (filter\$3 or filtration) and ("398"/\$7.ccls. or "359"/\$7.ccls. or "370"/\$7.ccls. or "372"/\$7.ccls. or "375"/\$7.ccls. or "379"/\$7.ccls. or "250"/\$7.ccls.)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/10/18 16:25
S4	468	(ct or continuous?tim\$3 or continuous\$3 near2 tim\$3 or continual?tim\$3 or continual near2 tim\$3) near5 (filter\$3 or filtration or equaliz\$5) and ("398"/\$7.ccls. or "359"/\$7.ccls. or "370"/\$7.ccls. or "372"/\$7.ccls. or "375"/\$7.ccls. or "379"/\$7.ccls. or "250"/\$7.ccls.)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/10/18 12:03
S5	124	(continuous or consecutive or constant or continuing sequential or successive or uninterrupted or successional or succeeding or serial or succedent or progressive or repeating or repeated or recurring or recurrent or consequent\$3 or persistent or steady or unbroken) adj time adj filter\$3 and ("398"/\$7.ccls. or "359"/\$7.ccls. or "370"/\$7.ccls. or "372"/\$7.ccls. or "375"/\$7.ccls. or "379"/\$7.ccls. or "250"/\$7.ccls.)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/10/18 12:07
S6	470	S4 or S5	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/10/18 12:07
S7	69	S6 and (improv\$3 or correct\$3 or better\$3 or increas\$3 or elevat\$3 or boost\$3 or enhanc\$3 or promote or rectify or rais\$3 or tun\$3 or calibrat\$3 or adjust\$3 or regulat\$3 or mend\$3 or redtif\$3 or strengthen\$3 or error or control or measur\$3 or calculat\$7 or detect\$7 or monitor\$3 or supervis\$6 or control\$6 or overlook or oversee or review\$3 or analyz\$6 or measure\$6 or assess\$5 or weigh\$6 or determin\$5 or quantify\$3 or regulat\$3) near2 (bw or bandwidth)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/10/18 12:11

## EAST Search History

S8	110	S6 and (improv\$3 or correct\$3 or better\$3 or increas\$3 or elevat\$3 or boost\$3 or enhanc\$3 or promote or rectify or rais\$3 or tun\$3 or calibrat\$3 or adjust\$3 or regulat\$3 or mend\$3 or redtif\$3 or strengthen\$3 or error or control or measur\$3 or calculat\$7 or detect\$7 or monitor\$3 or supervis\$6 or control\$6 or overlook or oversee or review\$3 or analyz\$6 or measure\$6 or assess\$5 or weigh\$6 or determin\$5 or quantify\$3 or regulat\$3) near2 (bw or bandwidth or frequenc\$4 near2 range or frequenc\$4 near2 spectrumor band)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/10/18 12:12
S9	110	S6 and (improv\$3 or correct\$3 or better\$3 or increas\$3 or elevat\$3 or boost\$3 or enhanc\$3 or promote or rectify or rais\$3 or tun\$3 or calibrat\$3 or adjust\$3 or regulat\$3 or mend\$3 or redtif\$3 or strengthen\$3 or error or control or measur\$3 or calculat\$7 or detect\$7 or monitor\$3 or supervis\$6 or control\$6 or overlook or oversee or review\$3 or analyz\$6 or measure\$6 or assess\$5 or weigh\$6 or determin\$5 or quantify\$3 or regulat\$3 or feedback or feed?back) near2 (bw or bandwidth or frequenc\$4 near2 range or frequenc\$4 near2 spectrumor band)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/10/18 14:00
S10	69	S9 and (lpf or lp near2 filter\$3 or low adj pass or low?pass near2 filter\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/10/18 12:21
S11	0	398/149.ccls. and (ct or continuous?tim\$3 or continuous\$3 near2 tim\$3 or continual?tim\$3 or continual near2 tim\$3) near5 (filter\$3 or filtration or equaliz\$5)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/10/18 12:15
S12	2	"398"/\$7.ccls. and (ct or continuous?tim\$3 or continuous\$3 near2 tim\$3 or continual?tim\$3 or continual near2 tim\$3) near5 (filter\$3 or filtration or equaliz\$5)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/10/18 12:15
S13	637	375/233.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/10/18 12:21

## EAST Search History

S14	14	("5283484"   "5881376"   "5896063"   "5930686"   "5949285"   "5949286"   "6049251"   "6049702"   "6100759"   "6118811"   "6118984"   "6175279"   "6218909").PN. OR ("6968167").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 13:30
S15	5	("5424881"   "5696639").PN. OR ("6252733").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 13:35
S16	21	("4283788"   "4870657"   "4953041"   "5107379"   "5153875"   "5168395"   "5337264"   "5355258"   "5532885"   "5598302").PN. OR ("5774505").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 13:41
S17	28	("4564934"   "4757527"   "4845746"   "4896318"   "4922530"   "4928308"   "4937813"   "4987569"   "4991167"   "5007047").PN. OR ("5153875").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 13:51
S18	301	(cascaded or cascaded\$3 or in adj series) near3(filter\$3 or bpf or lpf or low?pass or low adj pass or filtration or lp adj filter\$3) same (bw or bandwidth or frequenc\$4 near2 range or frequenc\$4 near2 spectrum or band or band?width) near7(error\$1 or feedback or feed?back or correction or correct\$3 or tun\$3 or calibrat\$3 or adjust\$3 or regulat\$3 or chang\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 14:55
S19	11	(cascaded or cascaded\$3 or in adj series) near3(filter\$3 or bpf or lpf or low?pass or low adj pass or filtration or lp adj filter\$3) same (bw or bandwidth or frequenc\$4 near2 range or frequenc\$4 near2 spectrum or band or band?width) near7(error\$1 or feedback or feed?back or correction or correct\$3 or tun\$3 or calibrat\$3 or adjust\$3 or regulat\$3 or chang\$3) and (isi or intersymbol or inter?symbol)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 14:23
S20	17	("20020041637"   "20020126778"   "4761829"   "5031195"   "5451948"   "5509030"   "5515046"   "5617060"   "5617090"   "5905743"   "5943324"   "5999561"   "6037886"   "6052420"   "6307599"   "6606359"   "6683905").PN. OR ("6768441").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 14:16

## EAST Search History

S21	14	("5438460"   "5796358"   "5808573"   "5866842").PN. OR ("6037886").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 14:18
S22	458	(cascaded or cascaded\$3 or in adj series) near3(filter\$3 or bpf or lpf or low?pass or low adj pass or filtration or lp adj filter\$3) and (isi or intersymbol or inter?symbol)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 14:29
S23	72	(cascaded or cascaded\$3 or in adj series) near3(filter\$3 or bpf or lpf or low?pass or low adj pass or filtration or lp adj filter\$3) and (isi or intersymbol or inter?symbol) and continuous near3 time	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 14:46
S24	1	"20050135475"	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 14:46
S25	276	(isi or intersymbol or inter?symbol) same (bw or bandwidth or band or band?width) near7(error\$1 or feedback or feed?back or correction or correct\$3 or tun\$3 or calibrat\$3 or adjust\$3 or regulat\$3 or chang\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 14:57
S26	128	(isi or intersymbol or inter?symbol) same (bw or bandwidth or band or band?width) near7(error\$1 or feedback or feed?back or correction or correct\$3 or tun\$3 or calibrat\$3 or adjust\$3 or regulat\$3 or chang\$3) and ("398"/\$7.ccls. or "359"/\$7.ccls. or "370"/\$7.ccls. or "372"/\$7.ccls. or "375"/\$7.ccls. or "379"/\$7.ccls. or "250"/\$7.ccls.)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 19:03
S27	13	continuous near3 time near3 filter\$3 with (bw or bandwidth) near5 (tunable or error\$1 or feedback or feed?back or tun\$3 or calibrat\$3 or adjust\$3 or regulat\$3 or chang\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 15:18
S28	6	("4812773"   "5281931"   "5914633"   "6052034"   "6262624"   "6657483").PN. OR ("6919759").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 15:24
S29	4	"5608665"	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 15:25
S30	4	"5608665"	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 15:29

## EAST Search History

S31	1	"6819166".pn.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/10/18 15:30
S32	4	("5371803"   "5574791"   "6680632").PN. OR ("6819166"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 15:43
S33	1	"6556637".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 15:47
S34	7	("5455844"   "5703904"   "6178198"   "6341360"   "6370191").PN. OR ("6556637").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 15:50
S35	1	"20040258145"	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 15:50
S36	0	"2004002023"	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 15:51
S37	7	"2004002023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/18 15:52
S38	409	(ct or continuous?tim\$3 or continuous\$3 near2 tim\$3 or continual?tim\$3 or continual near2 tim\$3) near5 (filter\$3 or filtration) with (adjust\$5 or tuning or tunable or calibrat\$3 or adjust\$3 or regulat\$3 or chang\$6 or adapt\$5 or alter\$5)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/10/18 16:47
S39	26	(ct or continuous?tim\$3 or continuous\$3 near2 tim\$3 or continual?tim\$3 or continual near2 tim\$3) near5 (filter\$3 or filtration) with (adjust\$5 or tuning or tunable or calibrat\$3 or adjust\$3 or regulat\$3 or chang\$6 or adapt\$5 or alter\$5) and (dfe or feedback adj equaliz\$6 or decision adj feedback)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/10/18 16:48
S40	6	("20010007479"   "5191462"   "5561687"   "6141378"   "6144697"   "6240133").PN. OR ("7039104"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 18:46
S41	74	pre?cursor near3 (isi or inter?symbol or inter adj symbol or intersymbol)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 19:02



## EAST Search History

S42	6235	cascad\$3 near3 filter\$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 19:03
S43	263	cascad\$3 near3 filter\$3 same (bw or bandwidth or band or band?width) near7(error\$1 or feedback or feed?back or correction or correct\$3 or tun\$3 or calibrat\$3 or adjust\$3 or regulat\$3 or chang\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 19:04
S44	274	cascad\$3 near3 filter\$3 same (bw or bandwidth or band or band?width) near7(alter\$5 or error\$1 or feedback or feed?back or correction or correct\$3 or tun\$3 or calibrat\$3 or adjust\$3 or regulat\$3 or chang\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 19:04
S45	105	S44 and (dfe or bandwidth adj control\$3 or feedback near3 equaliz\$5 or decision near2 feedback or bandwidth near3 error or continuous near3 time or continuous?time low?pass or lpf or isi or inter?symbol or inter adj symbol or intersymbol)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/19 09:41
S46	5	("4942564"   "5170387").PN. OR ("6011770").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/18 19:23
S47	1	"6011770".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/19 10:27
S48	1	"20040151268"	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/19 18:33

## EAST Search History

S49	48	(US-20040131030-\$ or US-20040125879-\$ or US-20040036637-\$ or US-20020041637-\$ or US-20050052304-\$ or US-20040136444-\$ or US-20060093046-\$ or US-20030063680-\$ or US-20050024151-\$ or US-20040153898-\$ or US-20040151268-\$ or US-20040151240-\$ or US-20040091041-\$ or US-20040091040-\$ or US-20040044713-\$ or US-20040017516-\$ or US-20040109512-\$).did. or (US-7116963-\$ or US-6968167-\$ or US-6252733-\$ or US-6169764-\$ or US-5774505-\$ or US-6604221-\$ or US-5153875-\$ or US-6768441-\$ or US-6683905-\$ or US-6606359-\$ or US-6037886-\$ or US-5257286-\$ or US-5914633-\$ or US-6819166-\$ or US-7035365-\$ or US-6556637-\$ or US-7120193-\$ or US-7039104-\$ or US-6240133-\$ or US-6144697-\$ or US-6141378-\$ or US-5191462-\$ or US-7035330-\$ or US-6643406-\$ or US-6426680-\$ or US-6377312-\$). did. or (US-6307903-\$ or US-6011770-\$ or US-5179302-\$ or US-4777449-\$).did. or (WO-2004002023-\$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2006/10/19 11:24
S50	21	S49 and cascads\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/10/19 11:25
S51	17	S49 and cascads\$3 with filter\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/10/19 11:25
S52	5	("4942564"   "5170387").PN. OR ("6011770").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/19 13:07
S53	11	(S51 or S52) and (lpf or low near3 pass3 of low?pass\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/19 14:52
S54	4	(S49 or S53) and different\$5 near3 transistor\$1	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/19 15:04